

# BM 3



## Advanced BM 3 with New Environmental Standards



New Design with  
Durability Standard of IPX2



Convenient POP-UP Trend for ST  
Analysis & NIBP Monitoring



Simplifying Workflow



Enhanced Diagnostic Data  
& Review Capabilities



User-friendly Interface



Comprehensive Connectivity

## New and Improved Housing Design

- Meets IPX2 Water Ingress Standard, the most stringent drip test
- Ergonomic design, maximizing display presentation and operation

## Enhanced Workflow

- Easy patient registration with barcode scanner
- Patient Admission & Discharge menu
- Direct HL7 interface to HIS / EMR
- Auto data transfer mode with HL7 period from 10 sec ~ 6 hrs interval

## User-friendly Interface

- Large, remote color display HDMI Interface
- Screen Freeze for event capturing and Screen Lock for convenient cleaning
- Detachable bed-rail hook
- "One Touch" design for easy pole, rollstand and wall mounting
- On-board Drug Calculation software

## Advanced Diagnosis Data and Review

- 3 types of arrhythmia detection & ST segment analysis
- Pacemaker detection
- OxyCRG monitoring for neonate patient
- 168 hrs of tabular and graphical trends

## Comprehensive Connectivity

- 1 USB slots for external data transfer & barcode scanner
- Bed to Bed monitoring mode
- LAN, Wi-Fi connection to BM Central monitoring system

## BM Comparison Chart \*

	BM3	BM5	BM7
<b>Display size</b>	8" Touch	10.4" Touch	12.1" Touch
<b>Standard Parameter</b>	ECG/Spo2/NIBP/Resp/1CH-Temp	ECG/Spo2/NIBP/Resp/2CH-IBP/2CH-Temp	ECG/Spo2/NIBP/Resp/2CH-IBP/2CH-Temp
<b>NIBP (SunTech)</b>	Opt.	Opt.	Opt.
<b>Temp</b>	1CH Optional sensor	2CH Optional sensor	2CH Optional sensor
<b>IBP</b>	X	2CH Optional sensor & cable	2CH Optional sensor & cable
<b>ETCO2</b>	Opt.*	Opt.	Opt.
<b>Waveforms</b>	4	6	6
<b>Printer</b>	Y	Y	Y
<b>Network</b>	LAN, USB Wi-Fi Dongle	LAN, USB Wi-Fi Dongle	LAN, USB Wi-Fi Dongle

\* BM3 ETCO2 option includes SUNTECH NIBP

## Enhanced, Robust Physical Design

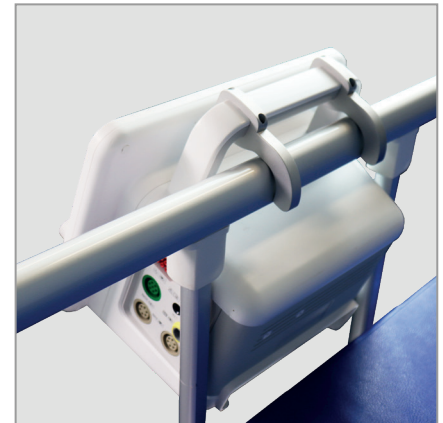
With ease of use in mind



New housing design supporting IPX2



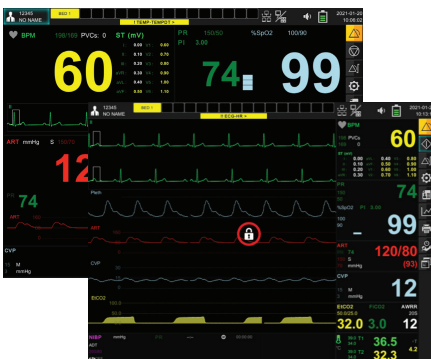
"One Touch" design for easy pole, rollstand and wall mounting



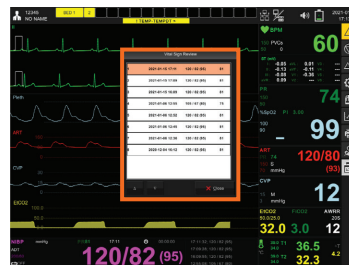
Detachable bed-rail hook

## Versatile Operation

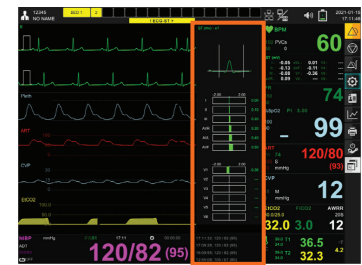
Enhancing patient monitoring experience



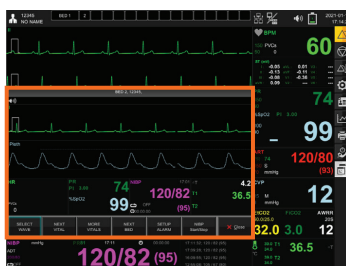
Screen Freeze / Lock function & Customizable display



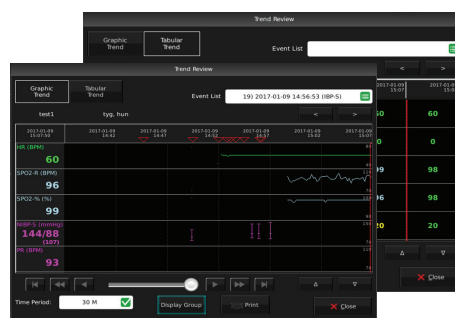
Quick review with NIBP trend window



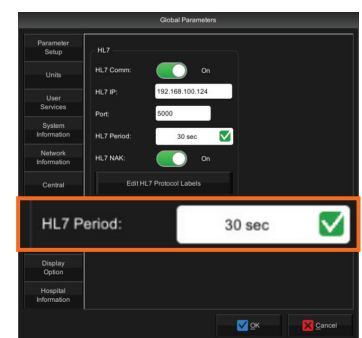
ST trend window for analyzing and detecting changes in ECG



Access to a different bed with Bed to Bed monitoring function



168 hrs of Tabular and Graphical trends



HL7 Auto data transfer from 10 sec ~ 6 hrs

# Technical Specifications

## Hardware Specifications

<b>Dimension (W x H x D) &amp; Weight</b>	BM3 240 x 237 x 176 / Approx 3.1 kg
<b>Display / Resolution</b>	BM3 8" / 800 X 600
<b>Parameters</b>	BM3 ECG, Heart Rate, Respiration Rate, SpO2, Pulse Rate, Systolic BP, Diastolic BP, Mean BP, ETCO2, FICO2, Airway Respiration Rate, 1CH-Temp
<b>Trace</b>	BM3 4 Waveforms : 2*ECG, SpO2, RR or ETCO2
<b>Indicators</b>	Categorized Visual alarm lamp (3 priority levels) SpO2 pulse pitch tone, Battery status, External power LED
<b>Interfaces</b>	DC input connector : 18 VDC, 2.8 A LAN port for transferring data Nurse call system connection HDMI output connector USB connector
<b>Battery</b>	Rechargeable BM3 : 3250 mAh (or optional 6500 mAh)
<b>Data Storage</b>	168 hrs (saving interval 1 min)
<b>Water Resistance</b>	IEC 60529:2013 Degree of protection provided by enclosures, IPX2

## ECG

<b>ECG lead &amp; Waveforms</b>	BM3 3-lead : 1 channel I, II, III 5-lead : 1 / 2 channels I, II, III, aVR, aVL, aVF, V
<b>Heart Rate Range</b>	Adult / Pediatric : 30 ~ 300 bpm Neonate : 30 ~ 350 bpm
<b>Heart Rate Accuracy</b>	± 1 bpm or ± 1 %, whichever is greater
<b>Sweep Speed</b>	6.25, 12.5, 25, 50 mm/sec
<b>Filter</b>	Diagnosis : 0.05 ~ 150 Hz Monitoring : 0.5 ~ 40 Hz Moderate : 0.5 ~ 25 Hz Maximum : 5 ~ 25 Hz
<b>ST Segment Detection Range</b>	-2.0 ~ 2.0 mV
<b>Arrhythmia Analysis</b>	BM3 : Asystole, VTach, VFib
<b>Pacemaker Detection Mode</b>	Indicator on waveform display
<b>Protection</b>	Against electrosurgical interference and defibrillation

## Respiration Performance

<b>Method</b>	Thoracic impedance
<b>Channel Selection</b>	BM3 : RA-LL
<b>Measurement Range</b>	5 ~ 120 breaths per minute
<b>Accuracy</b>	±1 breath per minute
<b>Apnea Alarm</b>	Yes

## Temperature Performance

<b>Measurement Range</b>	0 ~ 50 °C (32 ~ 122 °F)
<b>Accuracy</b>	25 ~ 50 °C : ± 0.1 °C 0 °C to the less than 25 °C : ± 0.2 °C
<b>Compatibility</b>	98ME04GA603 temperature probes
<b>Temperature Range</b>	Operating : 5 ~ 40 °C (41 ~ 104 °F) Storage : -20 ~ 60 °C (-4 ~ 140 °F)
<b>Channels</b>	1CH

## SpO2

<b>Saturation Range</b>	0 ~ 100 %
<b>Saturation Accuracy</b>	70 ~ 100 % : ± 2 digits 0 ~ 69 % : unspecified
<b>Pulse Rate Range</b>	30 ~ 254 bpm
<b>Pulse Rate Accuracy</b>	± 2 bpm

## NIBP

<b>Method</b>	Oscillometric
<b>Operation Mode</b>	Manual / Automatic / Continuous
<b>Measurement Range (Adult)</b>	Systolic : 40 ~ 260 mmHg MAP : 26 ~ 220 mmHg Diastolic : 20 ~ 200 mmHg
<b>Accuracy</b>	Mean error : less than ± 5 mmHg Standard deviation : less than 8 mmHg Meets accuracy requirements of ANSI/AAMI SP10:2002

## ETCO2 (Main / Sidestream)

<b>Measurement Range</b>	0 ~ 150 mmHg, 0 ~ 19 %
<b>Accuracy</b>	0 ~ 40 mmHg ± 2 mmHg 41 ~ 70 mmHg ± 5 % of reading 71 ~ 100 mmHg ± 8 % of reading 101 ~ 150 mmHg ± 10 % of reading
<b>Respiration Rate</b>	2 ~ 150 breaths per minute
<b>Respiration Accuracy</b>	± 1 breath per minute

\* Specifications can be changed without prior notification.



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